

Consider the following easy problem:

I used to drive to Poughkeepsie to visit my parents.
When I did, I traveled 200 miles in 4 hours. How fast did I go?

Tell me if anything disturbs you about the questions or its wording;
if you have any questions;
If you notice anything or wonder about anything.....

Consider the following problem:

I used to drive to Poughkeepsie to visit my parents.
When I did, I ...

- * traveled 12 miles to the New Jersey Turnpike (taking 24 minutes)
- * 112 miles on the NJTP (96 minutes)
- * 2 miles to the Palisades Parkway (took generally 30 minutes because we stopped at a KFC for a snack)
- * 31 miles up the Palisades (averaging 55 mph)
- * 43 miles up Route 9 and 9D (in 45 minutes)


How fast did I go?

$$R = \frac{D}{T}$$

$$T = \frac{D}{R}$$


$$R = \frac{200 \text{ mi}}{3.8 \text{ hr}} = 52.6 \text{ mph} = 53 \text{ mph}$$

$$\approx 52.4$$



$$\begin{array}{r} 12 \\ 112 \\ 2 \\ 31 \\ \hline 200 \end{array} \quad \begin{array}{r} 24 \\ 96 \\ 30 \\ 45 \\ \hline 195 \end{array}$$

$$\begin{array}{r} 31 \\ 34 \\ \hline 65 \end{array} \quad \begin{array}{r} 31.60 \\ 55 \\ \hline 45 \end{array}$$

$$\begin{array}{r} 43 \\ 45 \\ \hline 229 \end{array}$$


Tell me if anything disturbs you about the questions or their wording;
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If you notice anything or wonder about anything.....

AP Calculus 2012-08-30

→ Challenge students so they will
be wrong

- memory is promoted

→ q before reading

2 Main Questions of calculus

- Find instantaneous speed
(or velocity)

- Measure the area of an
exotic object



1) -3 slope-intercept \Leftarrow

2) 1.7 point-slope \star

3) $-\frac{16}{5} = -3.2$

4) no solution / no answer / und

5) yes

6) $y = -2x + 3$ slope-intercept
 pt-slope
 $pt = (2, -1)$
 $slope = -2$
 $y - (-1) = -2(x - (2))$

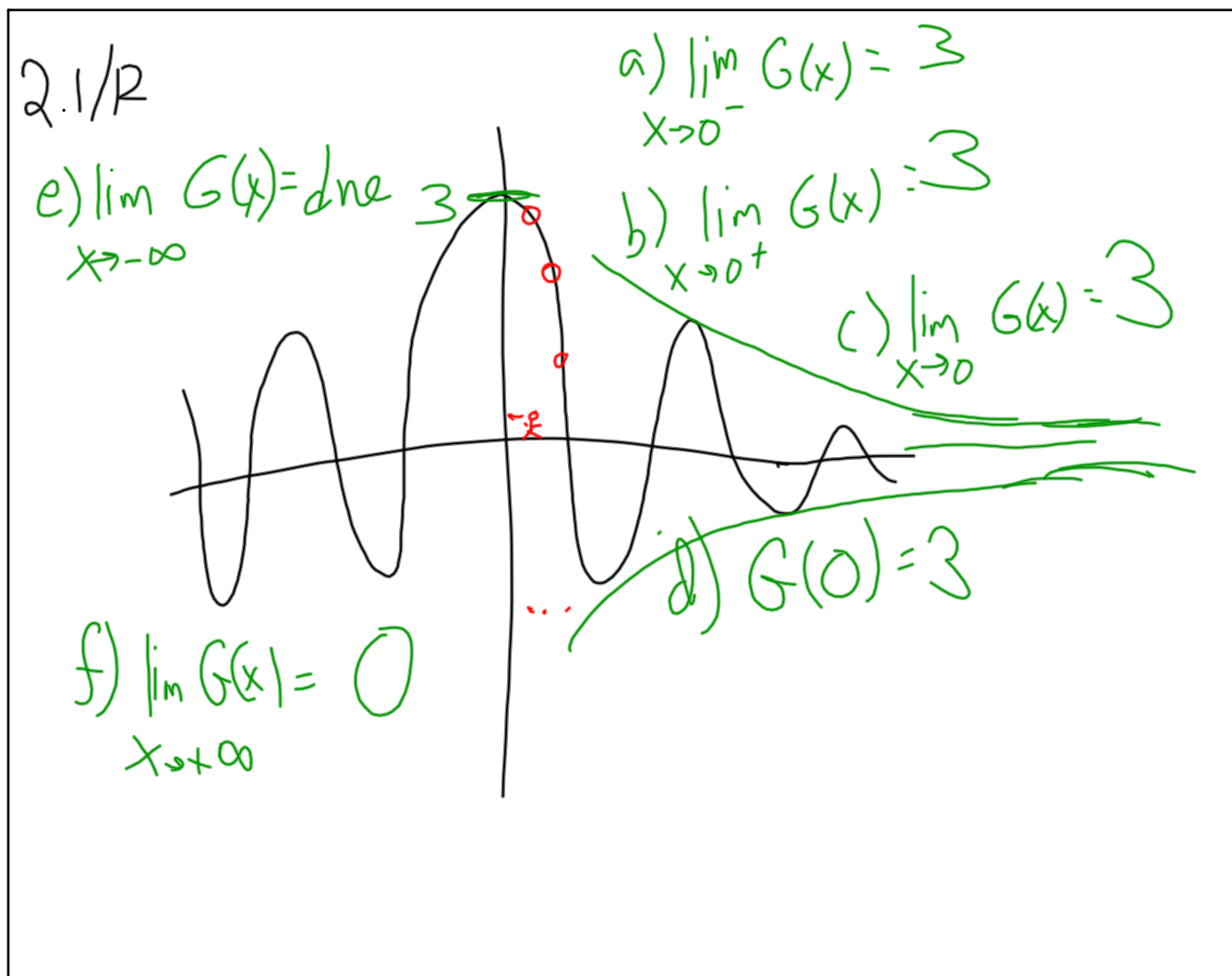
7) undefined,
no slope

8) $2y + 3x = 7$ $y = -\frac{3}{2}x + \frac{7}{2}$

given eqn of a line with x-term,
y-term, and number,
what does the slope depend on?

9) $y = -\frac{1}{2}x + \frac{3}{2}$ || $2y + x = 3$

10) False



on little pcs of paper

→ how did the 1ST wk go?

→ how do you feel about math?
(or me?!!)

→ anything to chg?